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$$W([M_1 | x \leftarrow M_2]) \stackrel{\text{def}}{=} \text{WTF}$$

WTF

$$W([]) \stackrel{\text{def}}{=} \emptyset \triangleright []_t : [t]$$

$$W(U :: V) \stackrel{\text{def}}{=} S(\Gamma_U \cup \Gamma_V) \triangleright S(\Pi_U :: \Pi_V) : S(\sigma_U)$$

$$W(U) = \Gamma_U \triangleright \Pi_U : \sigma_U$$

$$W(V) = \Gamma_V \triangleright \Pi_V : \sigma_V$$

$$S = \text{MGU} \{ \sigma_U \triangleq [\sigma_U] \} \cup \{ \gamma_x = \gamma_{x'} : x : \gamma_x \in \Gamma_U, x : \gamma_{x'} \in \Gamma_V \}$$

$$W([U | x \leftarrow V]) \stackrel{\text{def}}{=} S(\Gamma_U \cup \Gamma_V) \triangleright S([M_U | x \leftarrow M_V]) : S([\sigma_U])$$

$$W(U) = \Gamma_U \triangleright \Pi_U : \sigma_U$$

$$W(V) = \Gamma_V \triangleright \Pi_V : \sigma_V$$

$$S = \text{MGU} \{ \sigma_U \triangleq [tx] \} \cup \text{que nous requerrons } (\Gamma'_U, \Gamma_V)$$

$$tx = \begin{cases} \alpha & \text{si } x : \alpha \in \Gamma_U \\ t & \text{sinó} \end{cases}$$

$$b. [(\lambda y. y x) | x \leftarrow 0 :: \gamma :: [ ]]$$

$$② (\lambda y. y x)$$

$$① y x$$

$$\{y : s_1\} \triangleright y : s_1$$

$$\{x : s_2\} \triangleright x : s_2$$

$$① : \{y : s_2 \rightarrow s_3, x : s_2\} \triangleright y x : s_3$$

$$② : \{x : s_2\} \triangleright \lambda y : s_2 \rightarrow s_3. y x : (s_2 \rightarrow s_3) \rightarrow s_3$$

$$\emptyset \triangleright \emptyset : \text{Nat}$$

$$\{x : \text{Nat}\} \triangleright 0 :: x :: [ ]_{\text{Nat}}$$

$$s = \{s_3 \leftarrow \text{Nat}\}$$

$$\{x : s_3\} \triangleright x : [ ]_{s_3} : [s_3]$$

$$s = \{s_4 \leftarrow s_3\}$$

$$\emptyset \triangleright [ ]_{s_4} : [s_4]$$

$$\{x : s_3\} \triangleright x : s_3$$

$$\textcircled{3} = \{x: \text{Not} \} \supset [(\lambda y: s_2 \rightarrow s_3. y(x) \mid x \leftarrow 0 :: x :: [] \text{Not} ] : [( \text{Not} \rightarrow s_3 ) \rightarrow s_3]$$

$$s_j = [\text{Not}]$$

$$s = \text{MGU} \{ [\text{Not}] = [s_1] \} = \{ s_2 \leftarrow \text{Not} \}$$

